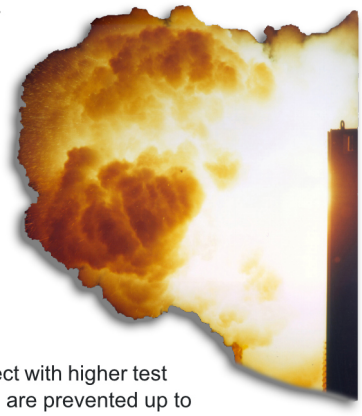
Arc Flash PPE

FACE PROTECTION 2
HAND PROTECTION 14
PROTECTIVE CLOTHING 16

The selection and provision of Personal Protective Equipment (PPE) is one of the main duties of the employer on the basis of occupational health and safety legislation. In Europe, this PPE must comply with the European **PPE Regulation**. If the PPE is to provide protection against fatal and serious injuries, PPE certified by an accredited certification institute must be used.



When testing personal protective equipment against the thermal hazards of the Arc Flash (Arc Flash PPE), two internationally recognised test methods can currently be used:

- IEC/EN 61482-1-1 (Open Arc Test)
- IEC/EN 61482-1-2 (Box Test).

The **Open Arc Test** was developed in North America. It is used to determine a material characteristic value. This **ATPV** value (or EBT or ELIM) stands for a thermal impact energy in cal/cm² up to which the PPE protects against 2nd degree burns. The ATPV values are grouped into different risk classes (HRC/ARC) in the NFPA 70E application guideline.

The **Box Test** procedure includes the protection classes

- **APC 1** (protection class 1, test level 168 kJ) and
- **APC 2** (protection class 2, test level 320 kJ).

In addition, we have developed Arc Flash PPE, which achieves a significantly higher protective effect with higher test levels of up to **630 kJ**. PPE successfully tested in the box test also ensures that 2nd degree burns are prevented up to the protection level of the Arc Flash PPE in question.

The relevant **regulations and standards** are listed below:

Standards group		ANSI/ASTM	IEC/EN/Europe	Germany
Declaration of conformity			Regulation (EU) 2016/425	Regulation (EU) 2016/425
Basis for selection of Arc Flash PPE		NFPA 70E IEEE 1584	DGUV Information 203-077 IEEE 1584	DGUV Information 203-077
Product standards	Fabric/Clothing	ASTM F1959 ASTM F1506	IEC/EN 61482-1-1 IEC/EN 61482-1-2 IEC/EN 61482-2	DIN EN IEC 61482-1-1 DIN EN 61482-1-2 DIN EN 61482-2
	Face Protection	ASTM F2178 ANSI/ISEA Z87.1	DGUV GS-ET 29 DIN EN 166	DGUV GS-ET 29 DIN EN 166
	Gloves	ASTM F 2675	in accordance to IEC/EN 61482-1-2	DGUV GS-ET 42



In addition to pure arc fault protection, our Arc Flash PPE is certified according to a number of **other standards**. The following pictograms provide a quick overview:

 APC x xx kJ xx cal/cm²	 Class xx							
Arc Flash PPE Additional info: Protection class Box-Test test level ATPV/EBT/ELIM	Insulating PPE Additional info: Insulating class/ Voltage level	Welding protection	Heat protec-tion/flame protection	Antistatic	Chemical protection	High-visibility clothing	Rain protection	Protection against mechanical risks
IEC/EN 61482-1-1 IEC/EN 61482-1-2 IEC/EN 61482-2 DGUV GS-ET 29 DGUV GS-ET 42 ASTM F 1959 ASTM F2675 ASTM F2178	EN 50365 EN 60903 EN 50286	DIN EN ISO 11611	DIN EN ISO 11612 DIN EN 407	DIN EN 1149-5	DIN EN 13034	DIN EN ISO 20471	DIN EN 343	DIN EN 388

Our consulting team will also be happy to advise you on the **selection of the correct Arc Flash PPE**. Within the scope of an arc fault study, we can determine the occurring arc energies in your network and develop an **individual PPE concept** together with you. We can also support you in preparing the risk assessment and operating guidelines. Do not hesitate to contact us!

BSD arc calculator software

You don't know which PPE to choose for your employees? Is APC 2 sufficient for all workplaces? At which locations is the potential arc energy highest? And where is it actually lowest? The BSD arc flash software provides answers to such questions. It helps you calculate the arc energy at your workplaces and thus provides a solid basis for the right selection of PPE. The calculation is based on the Boxtest method. Contact us for a free demonstration

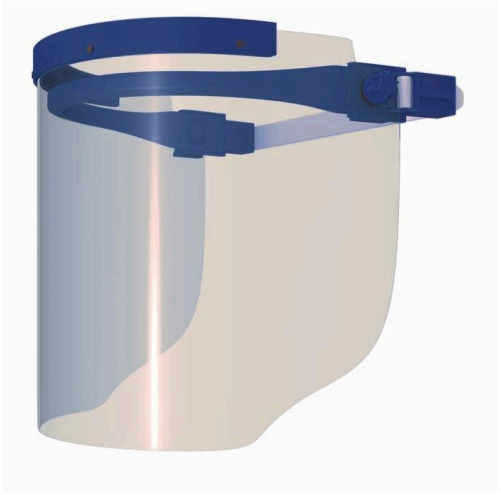


Description	Item No.
BSD arc calculator	4999999

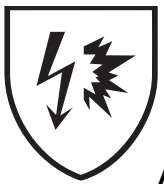
Face protection

arc flash face shield "ErgoS-Basis", APC 1

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- EN 166, "personal eye-protection requirement"
- true color visor (color rendering index >95%)
- universal mount fits standard electrician´s helmets
- slot-bracket suitable for helmets with 30 mm Euro-slots
- mounting systems for other helmets on request
- guaranteed protective properties and servicelife up to 10 years







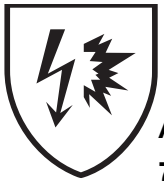
APC 1

Description	Item No.
face shield ErgoS-Basic, APC 1, universal-bracket	7406800
face shield ErgoS-Basic, APC 1, EU-slot-bracket	7406810
Anti-fog spray 30 ml bottle	7406601

arc flash face shield "ErgoS", HRC 1, 7.0 cal/cm²

- tested for accidental arcing according to DGUV GS-ET-29, APC 2 (class 2)
- additionally tested for accidental arcing according to ASTM F2178, ATPV: 7.0 cal/cm²
- EN 166 "Personal eye protection
- Clear colour rendering (colour rendering index >95 %)
- Universal mount fits standard electrician's helmets
- Slot attachment suitable for helmets with 30 mm Euro slot
- Mounting systems for other helmets on request
- Anti-fog spray included
- Guaranteed protective properties and service life up to 10 years





APC 2

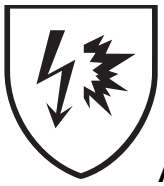
7.0 cal/cm²

Description	Item No.
face shield ErgoS, class 2, HRC 1, 7.0 cal/cm², universal-bracket	7406000
face shield ErgoS, class 2, HRC 1, 7.0 cal/cm², EU-slot-bracket	7406010
Anti-fog spray 30 ml bottle	7406601

arc flash face shield "ErgoS 3", APC 2

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166 "personal eye protection"
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years





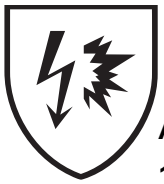
APC 2

Description	Item No.
face shield ErgoS 3, APC 2, universal-bracket	7407310
face shield ErgoS 3, APC 2, EU-Slot-bracket	7407320
face shield ErgoS 3, APC 2, US-Slot-bracket	7407330
face shield ErgoS 3, APC 2, Petzl / 3M -bracket	7407340
Anti-fog spray 30 ml bottle	7406601

arc flash face shield "ErgoS 3*Plus*" APC 2, HRC 2, 12 cal/cm²

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc tested according to ASTM F2178, ATPV: 12 cal/cm², HRC 2
- EN 166 "personal eye protection"
- ANSI / ISEA Z87.1
- CSA Z94.3
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years





APC 2

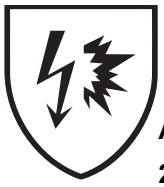
12 cal/cm²

Description	Item No.
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm², universal-bracket	7407410
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm², EU-Slot-bracket	7407420
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm², US-Slot-bracket	7407430
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm², Petzl / 3M -bracket	7407440
Anti-fog spray 30 ml bottle	7406601

arc flash face shield "ErgoS 3Power", HRC 3, 27 cal/cm²

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc tested according to ASTM F2178, ATPV: 27 cal/cm², HRC 3
- EN 166 "personal eye protection"
- ANSI / ISEA Z87.1
- CSA Z94.3
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years





APC 2

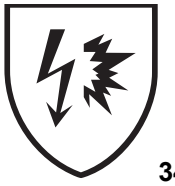
27 cal/cm²

Description	Item No.
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm², universal-bracket	7407510
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm², EU-Slot-bracket	7407520
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm², US-Slot-bracket	7407530
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm², Petzl / 3M -bracket	7407540
Anti-fog spray 30 ml bottle	7406601

arc flash balaclava, 34 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 34 cal/cm²
- for wearing under face shields
- for a higher arc flash protection of the head
- double layer fabric: 7.8 oz/yd²
- univeral-size
- color: darkblue





34 cal/cm²

Description	Item No.
Balaclava, 34 cal/cm²	7406480

electrician hard hat

- thermoplastic hard hat
- straight hard hat shell with rain-gutter
- extreme lateral rigidity
- side mounting option. e.g. for helmet lamp
- available in yellow, white and red
- 1000 V AC
- wear life 4 years
- DIN EN 50365
- with rotatable fastener for individual size adjustment
- at request your company emblem can be applied on the hard hat





Class 0

Description	Item No.
electrician hard hat yellow 1000 V	7404000
electrician hard hat white 1000 V	7404001
electrician hard hat red 1000 V	7404002

chin straps

- fitting to electrican helmet 7 404 000, -001, -002
- out of textile band with comfortable snap closing
- as 2 or 4-point construction



Description	Item No.
chin straps, with 2-point fastener	7490000
chin strap 20 mm black with 4-point fastener	7491001

headlamp for "ErgoS" arc-flash face shields

- LED lamp for the ErgoS
- different light options
- SOS flashing function
- size 64,5 x 29 x 32 mm
- weight 35 g (excl. battery)
- incl. 1 x AA battery
- ANSI FL1
- IPX6
- power 100 lumens



Description	Item No.
forehead lamp for ErgoS	7404500

hard hat lamp

- high-power LED-light out of shock resistant and waterproof case
- 3 watt Cree-LED, ca. 7000 Kelvin colour temperature
- up to 150 m light range
- very long service life



Description	Item No.
LED hard hat lamp with bracket, PetaLux	7404100
Power LED helmet lamp with bracket, for ATEX zone 1	7404200

Protection helmet for working at height and rescue

- helmet for height working and rescue
- according to EN 397
- ANSI Z 89.1 - 2009 Type I, Class E
- EN 50365
- 1000 V AC
- protection against collisions and hits
- safe fit via chin bar
- protection against splashes of molten metal
- size: 53 - 63 cm
- weight: 490 g





Class 0

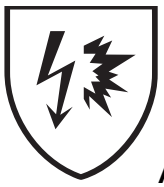
Description	Item No.
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, white	4701900
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, yellow	4701901
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, orange	4701902
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, red	4701903
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, black	4701904

arc flash face shield "ErgoS-Intec Basis", APC 1

Electrician face shield with integrated visor. The visor can be pushed in the helmet when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- visor EN 166, "personal eye protection"
- helmet EN 397, EN 50365 (Class 0), ANSI/ISEA Z89.1-2014
- helmet with reflective stripes
- visor has anti-fog protection
- available accessories: hearing protection, headlamp





APC 1



Class 0

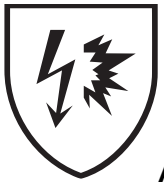
Description	Item No.
face shield Ergos-Intec Basis integrated in helmet, APC 1	7406440
headlamp for face shield ErgoS-Intec	7406414
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

arc flash face shield "ErgoS-Intec", APC 2

Electrician face shield with integrated visor and the Real View Technology by BSD. The Visor can be pushed into the hard hat when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp





APC 2



Class 0

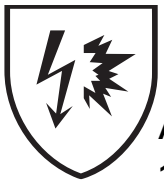
Description	Item No.
face shield ErgoS-Intec integrated in helmet, APC 2	7406400
headlamp for face shield ErgoS-Intec	7406414
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

arc flash face shield "ErgoS-Intec plus", APC 2, HRC 2, 14 cal/cm²

Electrician face shield with integrated visor and the Real View Technology by BSD. The visc can be pushed into the hard hat when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- arc flash tested according to ASTM F2178, 14 cal/cm²
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp





APC 2

14 cal/cm²



Class 0

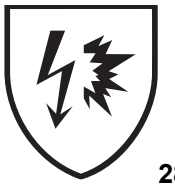
Description	Item No.
face shield ErgoS-Intec plus intergated in helmet, APC 2, HRC 2, 14 cal/cm²	7406401
headlamp for face shield ErgoS-Intec	7406414
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

arc flash face shield "ErgoS-Intec power", HRC 3, 28 cal/cm²

Electrician face shield with integrated visor and the Real View Technology by BSD. The visc can be pushed into the hard hat when not in use.

- arc flash tested according to ASTM F2178, 28 cal/cm²
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp





28 cal/cm²



Class 0

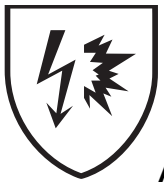
Description	Item No.
ErgoS-Intec power integrated in helmet, HRC 3, 28 cal/cm²	7406501
headlamp for face shield ErgoS-Intec	7406414
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

arc flash hood, APC 1



The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- EN 166, "Personal eye protection"
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



APC 1

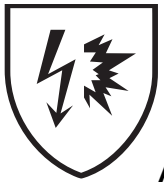
Description	Item No.
arc protection hood, APC 1	7406900
storage-bag for BSD arc protection hood	7406950

arc flash hood, APC 2



The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166 , "personal eye protection"
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



APC 2

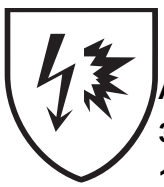
Description	Item No.
arc protection hood, APC 2	7406910
storage-bag for BSD arc protection hood	7406950

arc flash hood plus, APC 2, HRC 2, 14 cal/cm²



The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to ASTM F2178, ATPV: 14 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 395 kJ
- EN 166, "personal eye protection"
- back of the head is protected against thermal dangers of an electric arc through embedded neck protection
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



APC 2
395 kJ
14 cal/cm²

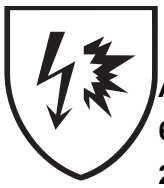
Description	Item No.
arc flash hood plus, APC 2, HRC 2, 14 cal/cm² with neck guard	7406960
storage-bag for BSD arc protection hood	7406950

arc flash hood plus, APC 2, HRC 3, 25 cal/cm²

The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to ASTM F2178, ATPV: 25 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional arc flash tested with a higher test level W_{LBP} = 630 kJ
- EN 166 "personal eye protection"
- back of the head is protected against thermal dangers of an electric arc through embedded neck protection
- true color visor
- color royal/navy blue
- classification on visor
- universal-size





APC 2
630 kJ
25 cal/cm²

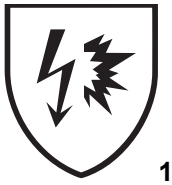
Description	Item No.
arc flash hood plus, APC 2, HRC 3, 25 cal/cm² with neck guard	7406970
storage-bag for BSD arc protection hood	7406950

arc flash hood "Classic" HRC 2, 13 cal/cm²

The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 13 cal/cm²
- also tested according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- for the highest arc flash protection
- fabric double layer, 350 g/m² (10 oz.yd2) per layer: cotton, antistatic
- color navyblue
- universal-size





13 cal/cm²

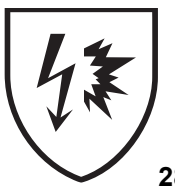
Description	Item No.
arc flash hood HRC 2, 13 cal/cm²	7406990

arc flash hood "Classic" HRC 3, 28 cal/cm²

The arc flash BSD Hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 28.0 cal/cm²
- also certificared to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- with integrated hard hat and bracket
- fabric double layer, 350 g/m² (10 oz.yd2) per Layer: cotton, antistatic
- color navyblue
- universal-size





28 cal/cm²

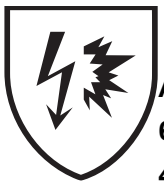
Description	Item No.
arc flash hood HRC 3, 28 cal/cm²	7406985

arc flash hood, APC 2, HRC 4, 47 cal/cm²



The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 47 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 630 kJ
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- for the highest arc flash protection
- with integrated hard hat and bracket
- fabric double layer, 350 g/m² (10 oz.yd2) per layer: cotton, antistatic
- color navyblue
- universal-size



APC 2
630 kJ
47 cal/cm²

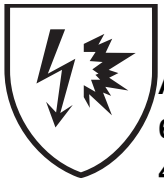
Description	Item No.
arc flash hood HRC 4, APC 2, 47 cal/cm²	7406996

arc flash hood, APC 2, HRC 4, 47 cal/cm², with ventilation system



The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 47 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 630 kJ
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- visor has no aging
- approved for live working
- for the highest arc flash protection
- fabric double layer, 350 g/m² (10 oz/yd2) per layer: cotton, antistatic
- with integrated hard hat, ANSI / ISEA Z89.1-2009 Type 1 Class E, and EU-Slot-bracket
- with ventilation system for a air circulation inside the hood
- supply unit with belt-strap
- color navyyblue
- universal-size



APC 2
630 kJ
47 cal/cm²

Description	Item No.
arc flash hood, APC 2, HRC 4, 47 cal/cm², with ventilation system	7406997

arc flash hood HRC 4 Power, APC 2, 40 cal/cm²



The arc flash hood power permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to IEC 61482-1-1: ASTM F2178, ATPV: 40 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 630 kJ
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- ultra light grammage 410 g/m² (12 oz.yd2)
- true color visor
- for the highest arc flash protection
- with integrated hard hat and bracket
- color greyblue
- universal-size



APC 2
630 kJ
40 cal/cm²

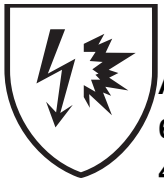
Description	Item No.
arc flash hood HRC 4 Power,APC 2, 40 cal/cm²	7406980

arc flash hood HRC 4 Power, APC 2, 40 cal/cm², with ventilation system



The arc flash hood power permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to IEC 61482-1-1: ASTM F2178, ATPV: 40 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 630 kJ
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- ultra light grammage 410 g/m² (12 oz.yd2)
- true color visor
- for the highest arc flash protection
- with integrated hard hat, ANSI / ISEA Z89.1-2009 Type 1 Class E, and EU-Slot-bracket
- with ventilation system for a air circulation inside the hood
- supply unit with belt-strap
- color greyblue
- universal-size



APC 2
630 kJ
40 cal/cm²

Description	Item No.
arc flash hood HRC 4 Power, APC 2, 40 cal/cm², with ventilation system	7406986

lamp for arc flash hoods



- mounted via special fastening on the peak of the hood
- low weight 85g
- powerful LEDs, with 4 power levels
- light ON time ca. 200 h
- luminous flux 100 Lumen

Description	Item No.
lamp with special holder for arc protection hood	7404400

bump cap for arc flash hoods

- can be added as impact protection to the arc protection hood
- protection against impact injury category 1



Description	Item No.
bump cap for arc protection hood	7406945

neck protection for arc flash BSD hoods

- added via hook and loop fastener to back part of the hood
- therefore all round protection of the head against the thermal dangers of the electric arc



Description	Item No.
neck protection for arc protection hood	7406940

storage bag

- storage bag
- to store e.g. helmet, face shield, golves etc.
- with cord
- colour red
- without contents



Description	Item No.
storage bag for helmet and face shield, 500 x 300 mm	7507600

backpack for equipment

- robust fabric for storing and transport
- color black
- size: diameter ca. 25 cm, height ca. 45 cm
- ca. 21 liter



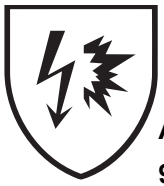
Description	Item No.
storage bag for utensils and equipment	4701000

arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm²

Particularly light arc protection gloves made of Nomex® and Kevlar ® fabric. It can be worn alone or is excellent as an underlay glove for insulating gloves. In the event of an arc fault the protective glove prevents the insulating gloves from melting into the surface of the hand

- Arc-flash tested in accordance with IEC 61482-1-2, APC 1 (Class 1)
- Arc-flash tested in accordance with IEC 61482-1-1, ATPV 9.6 cal/cm²
- Protection against thermal hazards according to EN 407:2004
- Protection against mechanical risks according to EN 388:2003
- good haptics and sensitivity even when worn under insulating protective gloves, perspiration is reduced
- perfect fit due to soft, supple knitted fabric
- seams laid inwards, with aramid thread
- Attention, the gloves do not have any insulating properties, in combination with insulating gloves, however, the perfect protection against body flow and the thermal hazards of arc faults. arc fault is realised





APC 1
9.6 cal/cm²

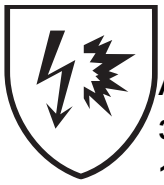


Description	Item No.
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm², size: 7/8	4650508
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm², size: 8/9	4650509
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm², size: 9/10	4650510
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm², size: 10/11	4650511

arc flash gloves, APC 2, HRC 2, 18 cal/cm²

- arc flash tested according to IEC 61482-1-1(ASTM F2675): ATPV 18 cal/cm²
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 395 kJ
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- inside seams, with aramid thread
- perfect fit via soft and flexible leather
- excellent delicacy of feeling





APC 2
395 kJ
18 cal/cm²

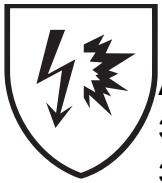


Description	Item No.
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm², size: 8	4640008
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm², size: 9	4640009
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm², size: 10	4640010
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm², size: 11	4640011
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm², size: 12	4640012

arc flash gloves, APC 2, HRC 3, 31 cal/cm²

- arc flash tested according to IEC 61482-1-1(ASTM F2675): ATPV 31 cal/cm²
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 395 kJ
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- perfect fit via soft and flexible leather
- excellent delicacy of feeling





APC 2
395 kJ
31 cal/cm²

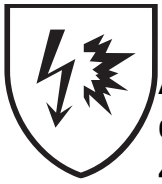


Description	Item No.
BSD arc flash gloves, HRC 3, 31 cal/cm², size: 8	4650308
BSD arc flash gloves, HRC 3, 31 cal/cm², size: 9	4650309
BSD arc flash gloves, HRC 3, 31 cal/cm², size: 10	4650310
BSD arc flash gloves, HRC 3, 31 cal/cm², size: 11	4650311
BSD arc flash gloves, HRC 3, 31 cal/cm², size: 12	4650312

arc flash gloves, APC 2, HRC 4, 45 cal/cm²

- arc flash tested according to IEC 61482-1-1(ASTM F2675): ATPV 45 cal/cm²
- arc flash testet according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level W_{LBP} = 630 kJ
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- perfect fit via soft and flexible leather
- excellent delicacy of feeling





APC 2
630 kJ
45 cal/cm²



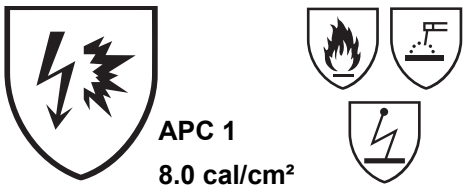
Description	Item No.
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm², size: 8	4650408
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm², size: 9	4650409
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm², size: 10	4650410
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm², size: 11	4650411
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm², size: 12	4650412

arc flash shirt "Light", APC 1, HRC 2, 8 cal/cm²



The arc flash shirt "Light" is made of a very light multifunctional fabric, which fullfils different protection requirements and is very good adapted for heat exposed working places.

- arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV = 8 cal/cm², ELIM = 7 cal/cm²
- also certificated according to IEC 61482-2: 2014 (ASTM F1506)
- arc flash tested according to IEC 61482-1-2:2007 APC 1 (class 1)
- heat and flame protection according to EN ISO 11612:2008 A1+A2/B1/C1/F1
- welding protection according to EN ISO 11611:2007 class 1-A1
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- no washing cycle limitation, industrial laundering suitable according to ISO 15797
- fabric: modacrylic (> 50%), Lyocell, aramid, antistatic
- weight: 240g/m²
- color: navy blue



APC 1
8.0 cal/cm²

Description	Item No.
shirt "Light", APC 1, HRC 2, 8 cal/cm² size: S	4601021
shirt "Light", APC 1, HRC 2, 8 cal/cm² size: M	4601022
shirt "Light", APC 1, HRC 2, 8 cal/cm² size: L	4601023
shirt "Light", APC 1, HRC 2, 8 cal/cm² , size: XL	4601024
shirt "Light", APC 1, HRC 2, 8 cal/cm² size: XXL	4601025
shirt "Light", APC 1, HRC 2, 8 cal/cm² size: XXXL	4601026

arc flash shirt, long sleeve, APC 1, HRC 2, 14 cal/cm²



- arc tested according to IEC 61482-1-2, APC 1 (Class 1)
- additional tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm², ELIM = 13 cal/cm²
- fabric with excellent wearing properties
- flame-retardant
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- markings are patched on the sleeve
- color: navy blue



APC 1
14 cal/cm²

Description	Item No.
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: S	4601037
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: M	4601038
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: L	4601039
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: XL	4601040
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: 2XL	4601041
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: 3XL	4601042
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: 4XL	4601045
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: 5XL	4701066
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm², size: 6XL	4701067

arc flash polo shirt, APC 1, HRC 2, 14 cal/cm²

- arc tested according to IEC 61482-1-2, APC 1 (Class 1)
- additional tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm², ELIM = 13 cal/cm²
- fabric with excellent wearing properties
- flame-retardant
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- markings are patched on the sleeve
- color: navy /royal blue





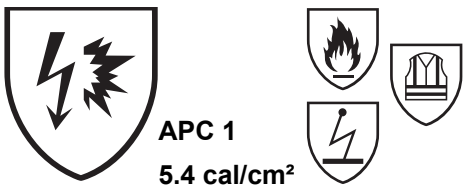
APC 1
14 cal/cm²

Description	Item No.
polo shirt, APC 1, HRC 2, 14 cal/cm² size: S	4601031
polo shirt, APC 1, HRC 2, 14 cal/cm² size: M	4601032
polo shirt, APC 1, HRC 2, 14 cal/cm² size: L	4601033
polo shirt, APC 1, HRC 2, 14 cal/cm² size: XL	4601034
polo shirt, APC 1, HRC 2, 14 cal/cm² size: 2XL	4601035
polo shirt, APC 1, HRC 2, 14 cal/cm² size: 3XL	4601036
polo shirt, APC 1, HRC 2, 14 cal/cm² size: 4XL	4601043
polo shirt, APC 1, HRC 2, 14 cal/cm² size: 5XL	4601066
polo shirt, APC 1, HRC 2, 14 cal/cm² size: 6XL	4601067

arc flash polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm²

- tested according to IEC 61482-1-2, APC 1 (class 1)
- additionally tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 5.4 cal/cm²
- High-visibility protection according to DIN EN ISO 20471, class 1
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- Piqué fabric with excellent wearing properties
- flame retardant
- Pictograms patched on sleeves
- Colour: warning yellow/navy





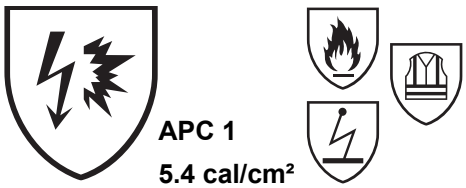
APC 1
5.4 cal/cm²

Description	Item No.
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size S	4667001
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size M	4667002
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size L	4667003
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size XL	4667004
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size 2XL	4667005
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size 3XL	4667006
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm², size 4XL	4667007

arc flash polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm²

- tested according to IEC 61482-1-2, APC 1 (class 1)
- additionally tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 5.4 cal/cm²
- High-visibility protection according to DIN EN ISO 20471, class 1
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- Piqué fabric with excellent wearing properties
- flame retardant
- Pictograms patched on sleeves
- Colour: warning orange





APC 1

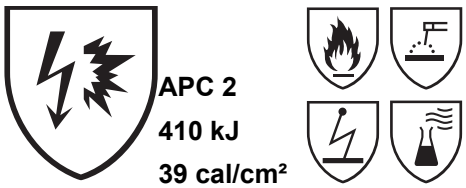
5.4 cal/cm²

Description	Item No.
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size S	4667021
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size M	4667022
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size L	4667023
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size XL	4667024
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size 2XL	4667025
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size 3XL	4667026
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm², size 4XL	4667027

arc flash jacket "BSD FuturaTec", APC 2, HRC 3, 39 cal/cm²

- innovative single-layer fabric
- very breathable (RET value 8.3 m² PA/W)
- arc flash tested to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level W_{LBP} = 410 kJ
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm², ELIM = 33 cal/cm²
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m²
- innovative composite material inherent flame protection 300 g/m²
- comfortable cut with extended back, reflective piping, large number of spacious pockets
- innovative zip design (KISS-FLAP)
- very high colour fastness (no bleeding)
- embroidered identification pictograms with class indication
- innovative composite material inherent flame retardant 300 g/m²
- color: dark blue/navy blue





Men's short

Description	Item no.
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 21	4616021
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 22	4616022
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 23	4616023
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 24	4616024
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 25	4616025
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 26	4616026
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 27	4616027
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 28	4616028
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 29	4616029
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 30	4616030

Men's long

Description	Item no.
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 94	4616094
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 98	4616098
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 102	4616102
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 106	4616106
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 110	4616110
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 114	4616114

Men's regular

Description	Item no.
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 42	4616042
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 44	4616044
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 46	4616046
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 48	4616048
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 50	4616050
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 52	4616052
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 54	4616054
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 56	4616056
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 58	4616058
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 60	4616060
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 62	4616062
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 64	4616064
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 66	4616066
jacket BSD FuturaTec, APC 2, 39 cal/cm², size 68	4616068

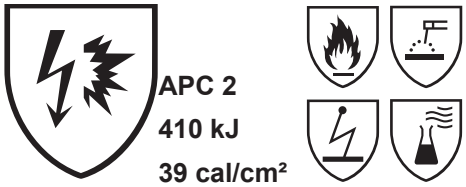
Women's

Description	Item no.
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 34	4616034Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 36	4616036Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 38	4616038Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 40	4616040Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 42	4616042Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 44	4616044Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 46	4616046Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 48	4616048Damen
jacket BSD FuturaTec, APC 2, 39 cal/cm², Women's size 50	4616050Damen

arc flash dungarees "BSDFuturaTec", APC 2, HRC 3, 39 cal/cm²



- innovative single-layer fabric
- very breathable (RET value 8.3 m² PA/W)
- arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level W_{LBP} = 410 kJ
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm², ELIM = 33 cal/cm²
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m²
- innovative composite material inherent flame protection 300 g/m²
- stretch straps with fixlock buckles, entry through 2 side stretch panels, 2 side seam wing pockets, 2 roomy leg pockets with 1 attached mobile phone pocket, 1 back pocket, 1 folding rule pocket, 1 bib pocket, plastic zip
- legs with reflective stripes
- 2 knee pad pockets with velcro fastener
- pre-shaped leg cut for better ergonomics
- embroidered identification pictograms with class indication on the left leg pocket
- very high colour fastness (no bleeding)
- innovative composite material inherent flame retardant 300 g/m²
- color: dark blue/navy blue



Men's short

Description	Item no.
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 21	4617021
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 22	4617022
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 23	4617023
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 24	4617024
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 25	4617025
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 26	4617026
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 27	4617027
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 28	4617028
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 29	4617029
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 30	4617030

Men's long

Description	Item no.
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 94	4617094
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 98	4617098
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 102	4617102
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 106	4617106
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 110	4617110
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 114	4617114

Men's regular

Description	Item no.
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 42	4617042
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 44	4617044
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 46	4617046
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 48	4617048
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 50	4617050
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 52	4617052
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 54	4617054
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 56	4617056
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 58	4617058
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 60	4617060
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 62	4617062
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 64	4617064
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 66	4617066
dungarees BSD FuturaTec, APC 2, 39 cal/cm², size 68	4617068

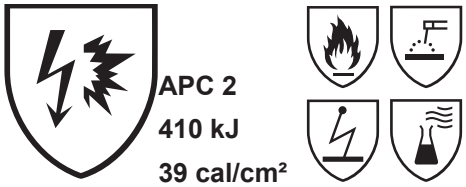
Women's

Description	Item no.
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 34	4617034Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 36	4617036Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 38	4617038Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 40	4617040Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 42	4617042Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 44	4617044Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 46	4617046Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 48	4617048Damen
dungarees BSD FuturaTec, APC 2, 39 cal/cm², Women's size 50	4617050Damen

arc flash trousers "BSD FuturaTec", APC 2, HRC 3, 39 cal/cm²



- innovative single-layer fabric
- very breathable (RET value 8.3 m² PA/W)
- arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level W_{LBP} = 410 kJ
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm², ELIM = 33 cal/cm²
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m²
- innovative composite material inherent flame protection 300 g/m²
- attached waistband with belt loops and elastic, 2 side seam fly pockets, 2 spacious leg pockets with 1 patch mobile phone pocket mobile phone pocket, 1 back pocket, 1 folding rule pocket, plastic zip fastener
- legs with reflective stripes
- 2 knee pad pockets with velcro fastener
- pre-shaped leg cut for better ergonomics
- embroidered identification pictograms with class indication on the left leg pocket
- very high colour fastness (no bleeding)
- innovative composite material inherent flame retardant 300 g/m²
- color: dark blue/navy blue



Men's short

Description	Item no.
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 21	4618021
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 22	4618022
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 23	4618023
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 24	4618024
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 25	4618025
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 26	4618026
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 27	4618027
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 28	4618028
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 29	4618029
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 30	4618030

Men's long

Description	Item no.
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 94	4618094
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 98	4618098
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 102	4618102
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 106	4618106
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 110	4618110
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 114	4618114

Men's regular

Description	Item no.
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 42	4618042
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 44	4618044
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 46	4618046
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 48	4618048
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 50	4618050
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 52	4618052
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 54	4618054
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 56	4618056
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 58	4618058
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 60	4618060
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 62	4618062
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 64	4618064
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 66	4618066
trousers BSD FuturaTec, APC 2, 39 cal/cm², size 68	4618068

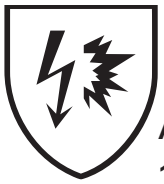
Women's

Description	Item no.
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 34	4618034Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 36	4618036Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 38	4618038Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 40	4618040Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 42	4618042Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 44	4618044Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 46	4618046Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 48	4618048Damen
trousers BSD FuturaTec, APC 2, 39 cal/cm², Women's size 50	4618050Damen

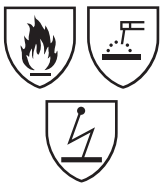
arc flash jacket "Comfort", APC 1, HRC 2, 13 cal/cm²

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue





APC 1
13 cal/cm²



Men's short

Description	Item no.
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 22	4641022
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 23	4641023
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 24	4641024
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 25	4641025
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 26	4641026
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 27	4641027
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 28	4641028
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 29	4641029
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 30	4641030

Men's long

Description	Item no.
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 94	4641094
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 98	4641098
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 102	4641102
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 106	4641106
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 110	4641110
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 114	4641114

Men's regular

Description	Item no.
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 44	4641044
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 46	4641046
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 48	4641048
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 50	4641050
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 52	4641052
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 54	4641054
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 56	4641056
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 58	4641058
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 60	4641060
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 62	4641062
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 64	4641064
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 66	4641066
jacket Comfort, APC 1, HRC 2, 13 cal/cm², size 68	4641068

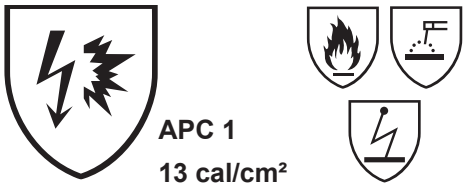
Women's

Description	Item no.
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34	4641034Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36	4641036Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38	4641038Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40	4641040Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42	4641042Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44	4641044Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46	4641046Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48	4641048Damen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50	4641050Damen

arc flash dungarees "Comfort", APC 1, HRC 2, 13 cal/cm²



- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



APC 1
13 cal/cm²

Men's short

Description	Item no.
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 22	4642022
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 23	4642023
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 24	4642024
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 25	4642025
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 26	4642026
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 27	4642027
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 28	4642028
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 29	4642029
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 30	4642030

Men's regular

Description	Item no.
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 44	4642044
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 46	4642046
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 48	4642048
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 50	4642050
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 52	4642052
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 54	4642054
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 56	4642056
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 58	4642058
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 60	4642060
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 62	4642062
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 64	4642064
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 66	4642066
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 68	4642068

Men's long

Description	Item no.
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 94	4642094
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 98	4642098
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 102	4642102
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 106	4642106
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 110	4642110
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², size 114	4642114

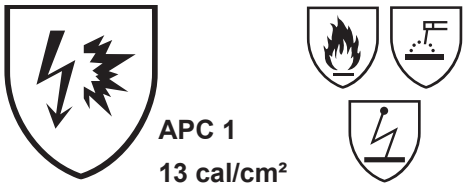
Women's

Description	Item no.
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34	4642034Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36	4642036Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38	4642038Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40	4642040Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42	4642042Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44	4642044Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46	4642046Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48	4642048Damen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50	4642050Damen

arc flash trousers"Comfort", APC 1, HRC 2, 13 cal/cm²



- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



APC 1
13 cal/cm²

Men's short

Description	Item no.
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 22	4643022
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 23	4643023
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 24	4643024
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 25	4643025
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 26	4643026
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 27	4643027
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 28	4643028
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 29	4643029
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 30	4643030

Men's long

Description	Item no.
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 94	4643094
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 98	4643098
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 102	4643102
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 106	4643106
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 110	4643110
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 114	4643114

Men's regular

Description	Item no.
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 42	4643042
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 44	4643044
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 46	4643046
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 48	4643048
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 50	4643050
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 52	4643052
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 54	4643054
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 56	4643056
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 58	4643058
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 60	4643060
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 62	4643062
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 64	4643064
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 66	4643066
trousers Comfort, APC 1, HRC 2, 13 cal/cm², size 68	4643068

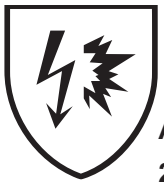
Women's

Description	Item no.
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34	4643034Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36	4643036Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38	4643038Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40	4643040Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42	4643042Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44	4643044Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46	4643046Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48	4643048Damen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50	4643050Damen

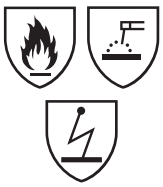
arc flash jacket "Comfort", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue





APC 2
22 cal/cm²



Men's short

Description	Item no.
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 22	4651022
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 23	4651023
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 24	4651024
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 25	4651025
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 26	4651026
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 27	4651027
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 28	4651028
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 29	4651029
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 30	4651030

Men's long

Description	Item no.
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 94	4651094
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 98	4651098
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 102	4651102
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 106	4651106
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 110	4651110
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 114	4651114

Men's regular

Description	Item no.
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 42	4651042
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 44	4651044
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 46	4651046
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 48	4651048
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 50	4651050
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 52	4651052
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 54	4651054
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 56	4651056
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 58	4651058
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 60	4651060
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 62	4651062
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 64	4651064
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 66	4651066
jacket Comfort, APC 2, HRC 2, 22 cal/cm², size 68	4651068

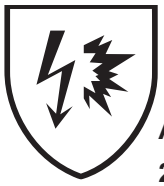
Women's

Description	Item no.
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34	4651034Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36	4651036Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38	4651038Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40	4651040Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42	4651042Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44	4651044Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46	4651046Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48	4651048Damen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50	4651050Damen

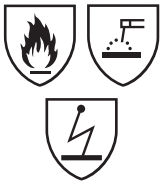
arc flash dungarees "Comfort", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue





APC 2
22 cal/cm²



Men's short

Description	Item no.
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 22	4652022
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 23	4652023
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 24	4652024
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 25	4652025
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 26	4652026
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 27	4652027
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 28	4652028
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 29	4652029
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 30	4652030

Men's long

Description	Item no.
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 94	4652094
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 98	4652098
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 102	4652102
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 106	4652106
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 110	4652110
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 114	4652114

Men's regular

Description	Item no.
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 42	4652042
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 44	4652044
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 46	4652046
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 48	4652048
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 50	4652050
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 52	4652052
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 54	4652054
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 56	4652056
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 58	4652058
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 60	4652060
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 62	4652062
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 64	4652064
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 66	4652066
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², size 68	4652068

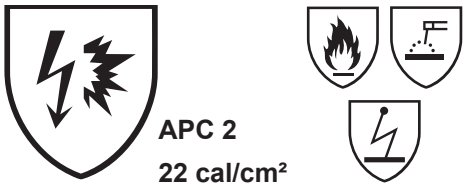
Women's

Description	Item no.
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34	4652034Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36	4652036Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38	4652038Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40	4652040Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42	4652042Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44	4652044Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46	4652046Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48	4652048Damen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50	4652050Damen

arc flash trousers"Comfort", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue





APC 2
22 cal/cm²

Men's short

Description	Item no.
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 22	4653022
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 23	4653023
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 24	4653024
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 25	4653025
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 26	4653026
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 27	4653027
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 28	4653028
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 29	4653029
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 30	4653030

Men's long

Description	Item no.
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 94	4653094
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 98	4653098
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 102	4653102
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 106	4653106
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 110	4653110
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 114	4653114

Men's regular

Description	Item no.
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 42	4653042
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 44	4653044
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 46	4653046
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 48	4653048
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 50	4653050
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 52	4653052
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 54	4653054
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 56	4653056
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 58	4653058
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 60	4653060
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 62	4653062
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 64	4653064
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 66	4653066
trousers Comfort, APC 2, HRC 2, 22 cal/cm², size 68	4653068

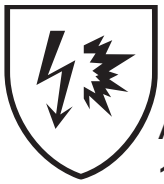
Women's

Description	Item no.
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34	4653034Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36	4653036Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38	4653038Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40	4653040Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42	4653042Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44	4653044Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46	4653046Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48	4653048Damen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50	4653050Damen

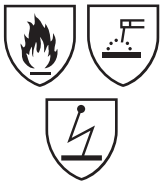
arc flash jacket "Comfort grey", APC 1, HRC 2, 13 cal/cm²

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 1
13 cal/cm²



Men's short

Description	Item no.
jacket Comfort, APC 1, 13 cal/cm², size 22, grey	4641022grau
jacket Comfort, APC 1, 13 cal/cm², size 23, grey	4641023grau
jacket Comfort, APC 1, 13 cal/cm², size 24, grey	4641024grau
jacket Comfort, APC 1, 13 cal/cm², size 25, grey	4641025grau
jacket Comfort, APC 1, 13 cal/cm², size 26, grey	4641026grau
jacket Comfort, APC 1, 13 cal/cm², size 27, grey	4641027grau
jacket Comfort, APC 1, 13 cal/cm², size 28, grey	4641028grau
jacket Comfort, APC 1, 13 cal/cm², size 29, grey	4641029grau
jacket Comfort, APC 1, 13 cal/cm², size 30, grey	4641030grau

Men's regular

Description	Item no.
jacket Comfort, APC 1, 13 cal/cm², size 44, grey	4641044grau
jacket Comfort, APC 1, 13 cal/cm², size 46, grey	4641046grau
jacket Comfort, APC 1, 13 cal/cm², size 48, grey	4641048grau
jacket Comfort, APC 1, 13 cal/cm², size 50, grey	4641050grau
jacket Comfort, APC 1, 13 cal/cm², size 52, grey	4641052grau
jacket Comfort, APC 1, 13 cal/cm², size 54, grey	4641054grau
jacket Comfort, APC 1, 13 cal/cm², size 56, grey	4641056grau
jacket Comfort, APC 1, 13 cal/cm², size 58, grey	4641058grau
jacket Comfort, APC 1, 13 cal/cm², size 60, grey	4641060grau
jacket Comfort, APC 1, 13 cal/cm², size 62, grey	4641062grau
jacket Comfort, APC 1, 13 cal/cm², size 64, grey	4641064grau
jacket Comfort, APC 1, 13 cal/cm², size 66, grey	4641066grau
jacket Comfort, APC 1, 13 cal/cm², size 68, grey	4641068grau

Men's long

Description	Item no.
jacket Comfort, APC 1, 13 cal/cm², size 94, grey	4641094grau
jacket Comfort, APC 1, 13 cal/cm², size 98, grey	4641098grau
jacket Comfort, APC 1, 13 cal/cm², size 102, grey	4641102grau
jacket Comfort, APC 1, 13 cal/cm², size 106, grey	4641106grau
jacket Comfort, APC 1, 13 cal/cm², size 110, grey	4641110grau
jacket Comfort, APC 1, 13 cal/cm², size 114, grey	4641114grau

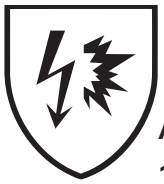
Women's

Description	Item no.
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34, grey	4641034grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36, grey	4641036grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38, grey	4641038grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40, grey	4641040grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42, grey	4641042grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44, grey	4641044grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46, grey	4641046grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48, grey	4641048grauDamen
jacket Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50, grey	4641050grauDamen

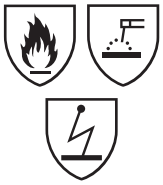
arc flash dungarees "Comfort grey", APC 1, HRC 2, 13 cal/cm²

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 1
13 cal/cm²



Men's short

Description	Item no.
dungarees Comfort, APC 1, 13 cal/cm², size 22, grey	4642022grau
dungarees Comfort, APC 1, 13 cal/cm², size 23, grey	4642023grau
dungarees Comfort, APC 1, 13 cal/cm², size 24, grey	4642024grau
dungarees Comfort, APC 1, 13 cal/cm², size 25, grey	4642025grau
dungarees Comfort, APC 1, 13 cal/cm², size 26, grey	4642026grau
dungarees Comfort, APC 1, 13 cal/cm², size 27, grey	4642027grau
dungarees Comfort, APC 1, 13 cal/cm², size 28, grey	4642028grau
dungarees Comfort, APC 1, 13 cal/cm², size 29, grey	4642029grau
dungarees Comfort, APC 1, 13 cal/cm², size 30, grey	4642030grau

Men's long

Description	Item no.
dungarees Comfort, APC 1, 13 cal/cm², size 94, grey	4642094grau
dungarees Comfort, APC 1, 13 cal/cm², size 98, grey	4642098grau
dungarees Comfort, APC 1, 13 cal/cm², size 102, grey	4642102grau
dungarees Comfort, APC 1, 13 cal/cm², size 106, grey	4642106grau
dungarees Comfort, APC 1, 13 cal/cm², size 110, grey	4642110grau
dungarees Comfort, APC 1, 13 cal/cm², size 114, grey	4642114grau

Men's regular

Description	Item no.
dungarees Comfort, APC 1, 13 cal/cm², size 44, grey	4642044grau
dungarees Comfort, APC 1, 13 cal/cm², size 46, grey	4642046grau
dungarees Comfort, APC 1, 13 cal/cm², size 48, grey	4642048grau
dungarees Comfort, APC 1, 13 cal/cm², size 50, grey	4642050grau
dungarees Comfort, APC 1, 13 cal/cm², size 52, grey	4642052grau
dungarees Comfort, APC 1, 13 cal/cm², size 54, grey	4642054grau
dungarees Comfort, APC 1, 13 cal/cm², size 56, grey	4642056grau
dungarees Comfort, APC 1, 13 cal/cm², size 58, grey	4642058grau
dungarees Comfort, APC 1, 13 cal/cm², size 60, grey	4642060grau
dungarees Comfort, APC 1, 13 cal/cm², size 62, grey	4642062grau
dungarees Comfort, APC 1, 13 cal/cm², size 64, grey	4642064grau
dungarees Comfort, APC 1, 13 cal/cm², size 66, grey	4642066grau
dungarees Comfort, APC 1, 13 cal/cm², size 68, grey	4642068grau

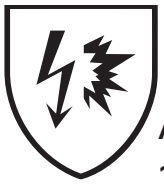
Women's

Description	Item no.
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34, grey	4642034grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36, grey	4642036grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38, grey	4642038grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40, grey	4642040grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42, grey	4642042grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44, grey	4642044grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46, grey	4642046grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48, grey	4642048grauDamen
dungarees Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50, grey	4642050grauDamen

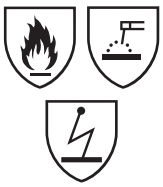
arc flash trousers"Comfort grey", APC 1, HRC 2, 13 cal/cm²

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 1
13 cal/cm²



Men's short

Description	Item no.
trousers Comfort, APC 1, 13 cal/cm², size 22, grey	4643022grau
trousers Comfort, APC 1, 13 cal/cm², size 23, grey	4643023grau
trousers Comfort, APC 1, 13 cal/cm², size 24, grey	4643024grau
trousers Comfort, APC 1, 13 cal/cm², size 25, grey	4643025grau
trousers Comfort, APC 1, 13 cal/cm², size 26, grey	4643026grau
trousers Comfort, APC 1, 13 cal/cm², size 27, grey	4643027grau
trousers Comfort, APC 1, 13 cal/cm², size 28, grey	4643028grau
trousers Comfort, APC 1, 13 cal/cm², size 29, grey	4643029grau
trousers Comfort, APC 1, 13 cal/cm², size 30, grey	4643030grau

Men's long

Description	Item no.
trousers Comfort, APC 1, 13 cal/cm², size 94, grey	4643094grau
trousers Comfort, APC 1, 13 cal/cm², size 98, grey	4643098grau
trousers Comfort, APC 1, 13 cal/cm², size 102, grey	4643102grau
trousers Comfort, APC 1, 13 cal/cm², size 106, grey	4643106grau
trousers Comfort, APC 1, 13 cal/cm², size 110, grey	4643110grau
trousers Comfort, APC 1, 13 cal/cm², size 114, grey	4643114grau

Men's regular

Description	Item no.
trousers Comfort, APC 1, 13 cal/cm², size 44, grey	4643044grau
trousers Comfort, APC 1, 13 cal/cm², size 46, grey	4643046grau
trousers Comfort, APC 1, 13 cal/cm², size 48, grey	4643048grau
trousers Comfort, APC 1, 13 cal/cm², size 50, grey	4643050grau
trousers Comfort, APC 1, 13 cal/cm², size 52, grey	4643052grau
trousers Comfort, APC 1, 13 cal/cm², size 54, grey	4643054grau
trousers Comfort, APC 1, 13 cal/cm², size 56, grey	4643056grau
trousers Comfort, APC 1, 13 cal/cm², size 58, grey	4643058grau
trousers Comfort, APC 1, 13 cal/cm², size 60, grey	4643060grau
trousers Comfort, APC 1, 13 cal/cm², size 62, grey	4643062grau
trousers Comfort, APC 1, 13 cal/cm², size 64, grey	4643064grau
trousers Comfort, APC 1, 13 cal/cm², size 66, grey	4643066grau
trousers Comfort, APC 1, 13 cal/cm², size 68, grey	4643068grau

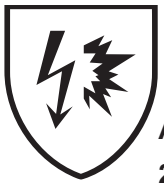
Women's

Description	Item no.
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 34, grey	4643034grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 36, grey	4643036grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 38, grey	4643038grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 40, grey	4643040grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 42, grey	4643042grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 44, grey	4643044grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 46, grey	4643046grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 48, grey	4643048grauDamen
trousers Comfort, APC 1, HRC 2, 13 cal/cm², Women's size 50, grey	4643050grauDamen

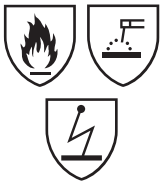
arc flash jacket "Comfort grey", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 2
22 cal/cm²



Men's short

Description	Item no.
jacket Comfort, APC 2, 22 cal/cm², size 22, grey	4651022grau
jacket Comfort, APC 2, 22 cal/cm², size 23, grey	4651023grau
jacket Comfort, APC 2, 22 cal/cm², size 24, grey	4651024grau
jacket Comfort, APC 2, 22 cal/cm², size 25, grey	4651025grau
jacket Comfort, APC 2, 22 cal/cm², size 26, grey	4651026grau
jacket Comfort, APC 2, 22 cal/cm², size 27, grey	4651027grau
jacket Comfort, APC 2, 22 cal/cm², size 28, grey	4651028grau
jacket Comfort, APC 2, 22 cal/cm², size 29, grey	4651029grau
jacket Comfort, APC 2, 22 cal/cm², size 30, grey	4651030grau

Men's long

Description	Item no.
jacket Comfort, APC 2, 22 cal/cm², size 94, grey	4651094grau
jacket Comfort, APC 2, 22 cal/cm², size 98, grey	4651098grau
jacket Comfort, APC 2, 22 cal/cm², size 102, grey	4651102grau
jacket Comfort, APC 2, 22 cal/cm², size 106, grey	4651106grau
jacket Comfort, APC 2, 22 cal/cm², size 110, grey	4651110grau
jacket Comfort, APC 2, 22 cal/cm², size 114, grey	4651114grau

Men's regular

Description	Item no.
jacket Comfort, APC 2, 22 cal/cm², size 44, grey	4651044grau
jacket Comfort, APC 2, 22 cal/cm², size 46, grey	4651046grau
jacket Comfort, APC 2, 22 cal/cm², size 48, grey	4651048grau
jacket Comfort, APC 2, 22 cal/cm², size 50, grey	4651050grau
jacket Comfort, APC 2, 22 cal/cm², size 52, grey	4651052grau
jacket Comfort, APC 2, 22 cal/cm², size 54, grey	4651054grau
jacket Comfort, APC 2, 22 cal/cm², size 56, grey	4651056grau
jacket Comfort, APC 2, 22 cal/cm², size 58, grey	4651058grau
jacket Comfort, APC 2, 22 cal/cm², size 60, grey	4651060grau
jacket Comfort, APC 2, 22 cal/cm², size 62, grey	4651062grau
jacket Comfort, APC 2, 22 cal/cm², size 64, grey	4651064grau
jacket Comfort, APC 2, 22 cal/cm², size 66, grey	4651066grau
jacket Comfort, APC 2, 22 cal/cm², size 68, grey	4651068grau

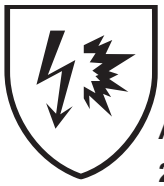
Women's

Description	Item no.
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34, grey	4651034grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36, grey	4651036grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38, grey	4651038grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40, grey	4651040grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42, grey	4651042grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44, grey	4651044grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46, grey	4651046grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48, grey	4651048grauDamen
jacket Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50, grey	4651050grauDamen

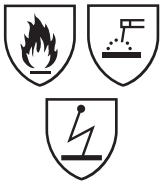
arc flash dungarees "Comfort grey", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 2
22 cal/cm²



Men's short

Description	Item no.
dungarees Comfort, APC 2, 22 cal/cm², size 22, grey	4652022grau
dungarees Comfort, APC 2, 22 cal/cm², size 23, grey	4652023grau
dungarees Comfort, APC 2, 22 cal/cm², size 24, grey	4652024grau
dungarees Comfort, APC 2, 22 cal/cm², size 25, grey	4652025grau
dungarees Comfort, APC 2, 22 cal/cm², size 26, grey	4652026grau
dungarees Comfort, APC 2, 22 cal/cm², size 27, grey	4652027grau
dungarees Comfort, APC 2, 22 cal/cm², size 28, grey	4652028grau
dungarees Comfort, APC 2, 22 cal/cm², size 29, grey	4652029grau
dungarees Comfort, APC 2, 22 cal/cm², size 30, grey	4652030grau

Men's long

Description	Item no.
dungarees Comfort, APC 2, 22 cal/cm², size 94, grey	4652094grau
dungarees Comfort, APC 2, 22 cal/cm², size 98, grey	4652098grau
dungarees Comfort, APC 2, 22 cal/cm², size 102, grey	4652102grau
dungarees Comfort, APC 2, 22 cal/cm², size 106, grey	4652106grau
dungarees Comfort, APC 2, 22 cal/cm², size 110, grey	4652110grau
dungarees Comfort, APC 2, 22 cal/cm², size 114, grey	4652114grau

Men's regular

Description	Item no.
dungarees Comfort, APC 2, 22 cal/cm², size 44, grey	4652044grau
dungarees Comfort, APC 2, 22 cal/cm², size 46, grey	4652046grau
dungarees Comfort, APC 2, 22 cal/cm², size 48, grey	4652048grau
dungarees Comfort, APC 2, 22 cal/cm², size 50, grey	4652050grau
dungarees Comfort, APC 2, 22 cal/cm², size 52, grey	4652052grau
dungarees Comfort, APC 2, 22 cal/cm², size 54, grey	4652054grau
dungarees Comfort, APC 2, 22 cal/cm², size 56, grey	4652056grau
dungarees Comfort, APC 2, 22 cal/cm², size 58, grey	4652058grau
dungarees Comfort, APC 2, 22 cal/cm², size 60, grey	4652060grau
dungarees Comfort, APC 2, 22 cal/cm², size 62, grey	4652062grau
dungarees Comfort, APC 2, 22 cal/cm², size 64, grey	4652064grau
dungarees Comfort, APC 2, 22 cal/cm², size 66, grey	4652066grau
dungarees Comfort, APC 2, 22 cal/cm², size 68, grey	4652068grau

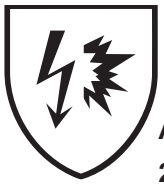
Women's

Description	Item no.
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34, grey	4652034grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36, grey	4652036grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38, grey	4652038grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40, grey	4652040grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42, grey	4652042grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44, grey	4652044grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46, grey	4652046grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48, grey	4652048grauDamen
dungarees Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50, grey	4652050grauDamen

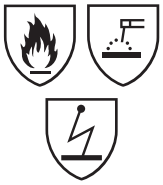
arc flash trousers"Comfort grey", APC 2, HRC 2, 22 cal/cm²

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey





APC 2
22 cal/cm²



Men's short

Description	Item no.
trousers Comfort, APC 2, 22 cal/cm², size 22, grey	4653022grau
trousers Comfort, APC 2, 22 cal/cm², size 23, grey	4653023grau
trousers Comfort, APC 2, 22 cal/cm², size 24, grey	4653024grau
trousers Comfort, APC 2, 22 cal/cm², size 25, grey	4653025grau
trousers Comfort, APC 2, 22 cal/cm², size 26, grey	4653026grau
trousers Comfort, APC 2, 22 cal/cm², size 27, grey	4653027grau
trousers Comfort, APC 2, 22 cal/cm², size 28, grey	4653028grau
trousers Comfort, APC 2, 22 cal/cm², size 29, grey	4653029grau
trousers Comfort, APC 2, 22 cal/cm², size 30, grey	4653030grau

Men's long

Description	Item no.
trousers Comfort, APC 2, 22 cal/cm², size 94, grey	4653094grau
trousers Comfort, APC 2, 22 cal/cm², size 98, grey	4653098grau
trousers Comfort, APC 2, 22 cal/cm², size 102, grey	4653102grau
trousers Comfort, APC 2, 22 cal/cm², size 106, grey	4653106grau
trousers Comfort, APC 2, 22 cal/cm², size 110, grey	4653110grau
trousers Comfort, APC 2, 22 cal/cm², size 114, grey	4653114grau

Men's regular

Description	Item no.
trousers Comfort, APC 2, 22 cal/cm², size 44, grey	4653044grau
trousers Comfort, APC 2, 22 cal/cm², size 46, grey	4653046grau
trousers Comfort, APC 2, 22 cal/cm², size 48, grey	4653048grau
trousers Comfort, APC 2, 22 cal/cm², size 50, grey	4653050grau
trousers Comfort, APC 2, 22 cal/cm², size 52, grey	4653052grau
trousers Comfort, APC 2, 22 cal/cm², size 54, grey	4653054grau
trousers Comfort, APC 2, 22 cal/cm², size 56, grey	4653056grau
trousers Comfort, APC 2, 22 cal/cm², size 58, grey	4653058grau
trousers Comfort, APC 2, 22 cal/cm², size 60, grey	4653060grau
trousers Comfort, APC 2, 22 cal/cm², size 62, grey	4653062grau
trousers Comfort, APC 2, 22 cal/cm², size 64, grey	4653064grau
trousers Comfort, APC 2, 22 cal/cm², size 66, grey	4653066grau
trousers Comfort, APC 2, 22 cal/cm², size 68, grey	4653068grau

Women's

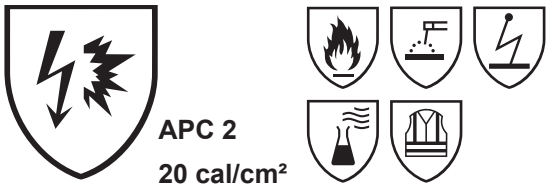
Description	Item no.
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 34, grey	4653034grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 36, grey	4653036grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 38, grey	4653038grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 40, grey	4653040grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 42, grey	4653042grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 44, grey	4653044grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 46, grey	4653046grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 48, grey	4653048grauDamen
trousers Comfort, APC 2, HRC 2, 22 cal/cm², Women's size 50, grey	4653050grauDamen

arc flash jacket "Comfort HiVis", APC 2, HRC 2, 20 cal/cm²



Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm², ELIM = 13 cal/cm²
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 4 outter pockets and 1 inner pocket
- color: high visibilty yellow/Navy



APC 2

20 cal/cm²

Men's short

Description	Item no.
jacket Comfort HiVis, APC 2, 20 cal/cm², size 22	4661022
jacket Comfort HiVis, APC 2, 20 cal/cm², size 23	4661023
jacket Comfort HiVis, APC 2, 20 cal/cm², size 24	4661024
jacket Comfort HiVis, APC 2, 20 cal/cm², size 25	4661025
jacket Comfort HiVis, APC 2, 20 cal/cm², size 26	4661026
jacket Comfort HiVis, APC 2, 20 cal/cm², size 27	4661027
jacket Comfort HiVis, APC 2, 20 cal/cm², size 28	4661028
jacket Comfort HiVis, APC 2, 20 cal/cm², size 29	4661029
jacket Comfort HiVis, APC 2, 20 cal/cm², size 30	4661030

Men's long

Description	Item no.
jacket Comfort HiVis, APC 2, 20 cal/cm², size 94	4661094
jacket Comfort HiVis, APC 2, 20 cal/cm², size 98	4661098
jacket Comfort HiVis, APC 2, 20 cal/cm², size 102	4661102
jacket Comfort HiVis, APC 2, 20 cal/cm², size 106	4661106
jacket Comfort HiVis, APC 2, 20 cal/cm², size 110	4661110
jacket Comfort HiVis, APC 2, 20 cal/cm², size 114	4661114

Men's regular

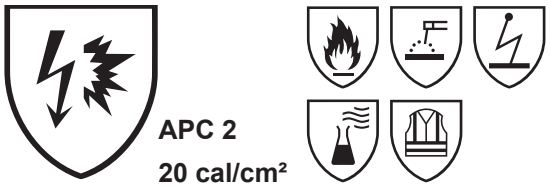
Description	Item no.
jacket Comfort HiVis, APC 2, 20 cal/cm², size 42	4661042
jacket Comfort HiVis, APC 2, 20 cal/cm², size 44	4661044
jacket Comfort HiVis, APC 2, 20 cal/cm², size 46	4661046
jacket Comfort HiVis, APC 2, 20 cal/cm², size 48	4661048
jacket Comfort HiVis, APC 2, 20 cal/cm², size 50	4661050
jacket Comfort HiVis, APC 2, 20 cal/cm², size 52	4661052
jacket Comfort HiVis, APC 2, 20 cal/cm², size 54	4661054
jacket Comfort HiVis, APC 2, 20 cal/cm², size 56	4661056
jacket Comfort HiVis, APC 2, 20 cal/cm², size 58	4661058
jacket Comfort HiVis, APC 2, 20 cal/cm², size 60	4661060
jacket Comfort HiVis, APC 2, 20 cal/cm², size 62	4661062
jacket Comfort HiVis, APC 2, 20 cal/cm², size 64	4661064
jacket Comfort HiVis, APC 2, 20 cal/cm², size 66	4661066
jacket Comfort HiVis, APC 2, 20 cal/cm², size 68	4661068

arc flash dungarees "Comfort HiVis", APC 2, HRC 2, 20 cal/cm²

Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm², ELIM = 13 cal/cm²
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 5 outter pockets, one meter stick pocket, 2 knee pad pockets and one bib pocket
- color: high visibilty yellow/Navy





APC 2
20 cal/cm²

Men's short

Description	Item no.
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 22	4662022
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 23	4662023
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 24	4662024
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 25	4662025
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 26	4662026
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 27	4662027
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 28	4662028
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 29	4662029
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 30	4662030

Men's long

Description	Item no.
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 94	4662094
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 98	4662098
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 102	4662102
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 106	4662106
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 110	4662110
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 114	4662114

Men's regular

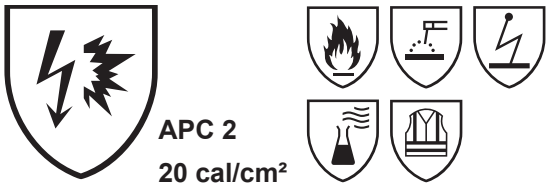
Description	Item no.
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 42	4662042
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 44	4662044
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 46	4662046
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 48	4662048
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 50	4662050
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 52	4662052
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 54	4662054
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 56	4662056
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 58	4662058
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 60	4662060
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 62	4662062
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 64	4662064
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 66	4662066
dungarees Comfort HiVis, APC 2, 20 cal/cm², size 68	4662068

trousers "Comfort HiVis", APC 2, HRC 2, 20 cal/cm²

Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm², ELIM = 13 cal/cm²
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 5 outter pockets, one meter stick pocket and 2 knee pad pockets
- color: high visibilty yellow/Navy





APC 2
20 cal/cm²

Men's short

Description	Item no.
trousers Comfort HiVis, APC 2, 20 cal/cm², size 22	4663022
trousers Comfort HiVis, APC 2, 20 cal/cm², size 23	4663023
trousers Comfort HiVis, APC 2, 20 cal/cm², size 24	4663024
trousers Comfort HiVis, APC 2, 20 cal/cm², size 25	4663025
trousers Comfort HiVis, APC 2, 20 cal/cm², size 26	4663026
trousers Comfort HiVis, APC 2, 20 cal/cm², size 27	4663027
trousers Comfort HiVis, APC 2, 20 cal/cm², size 28	4663028
trousers Comfort HiVis, APC 2, 20 cal/cm², size 29	4663029
trousers Comfort HiVis, APC 2, 20 cal/cm², size 30	4663030

Men's long

Description	Item no.
trousers Comfort HiVis, APC 2, 20 cal/cm², size 94	4663094
trousers Comfort HiVis, APC 2, 20 cal/cm², size 98	4663098
trousers Comfort HiVis, APC 2, 20 cal/cm², size 102	4663102
trousers Comfort HiVis, APC 2, 20 cal/cm², size 106	4663106
trousers Comfort HiVis, APC 2, 20 cal/cm², size 110	4663110
trousers Comfort HiVis, APC 2, 20 cal/cm², size 114	4663114

Men's regular

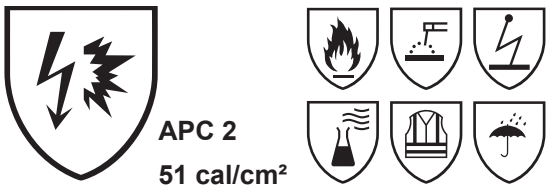
Description	Item no.
trousers Comfort HiVis, APC 2, 20 cal/cm², size 42	4663042
trousers Comfort HiVis, APC 2, 20 cal/cm², size 44	4663044
trousers Comfort HiVis, APC 2, 20 cal/cm², size 46	4663046
trousers Comfort HiVis, APC 2, 20 cal/cm², size 48	4663048
trousers Comfort HiVis, APC 2, 20 cal/cm², size 50	4663050
trousers Comfort HiVis, APC 2, 20 cal/cm², size 52	4663052
trousers Comfort HiVis, APC 2, 20 cal/cm², size 54	4663054
trousers Comfort HiVis, APC 2, 20 cal/cm², size 56	4663056
trousers Comfort HiVis, APC 2, 20 cal/cm², size 58	4663058
trousers Comfort HiVis, APC 2, 20 cal/cm², size 60	4663060
trousers Comfort HiVis, APC 2, 20 cal/cm², size 62	4663062
trousers Comfort HiVis, APC 2, 20 cal/cm², size 64	4663064
trousers Comfort HiVis, APC 2, 20 cal/cm², size 66	4663066
trousers Comfort HiVis, APC 2, 20 cal/cm², size 68	4663068

weather protection jacket GORE-TEX Pyrad® BSDshine, APC 2, HRC 4, 51 cal/cm²

Multifunctional PPE for universal usage with excellent wearing properties. Very high arc flash protection with ultra-light weight.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), EBT = 51 cal/cm², ELIM = 42 cal/cm²
- electric arc flash tested according to IEC 61482-2
- weather protection according to DIN EN 343, class 3/3, Waterproof (meter of water >10 m, 100kPA)
- high visibility according to DIN EN ISO 20471, class 3
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B2, C1, D2, E1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 2
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- good breathability RET < 16 m2Pa/W (doube layer)
- 2 outer pockets and 1 inner pocket
- sleeve with inner cuff
- marking with standard pictograms
- optional accessory: hood, fleece jacket to protect from cold
- color: high visibilty yellow/navy blue and high visibilty orange/navy blue





APC 2

51 cal/cm²

yellow

Description	Item no.
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size S	4615100
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615101
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615102
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615103
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 2XL	4615104
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615105
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 4XL	4615107
hood, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm²	4615106

Fleece jacket

Description	Item no.
BSD fleecejacket "Polar" size S	4615000
BSD fleecejacket "Polar" size M	4615001
BSD fleecejacket "Polar" size L	4615002
BSD fleecejacket "Polar" size XL	4615003
BSD fleecejacket "Polar" size 2XL	4615004
BSD fleecejacket "Polar" size 3XL	4615005
BSD fleecejacket "Polar" size 4XL	4615006

orange

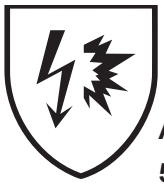
Description	Item no.
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size S	4615300
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615301
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615302
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615303
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 2XL	4615304
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615305
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 4XL	4615307
hood, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm²	4615306

weather protection trouserst GORE-TEX Pyrad® BSDshine, APC 2, HRC 4, 51 cal/cm²

Multifunctional PPE for universal usage with excellent wearing properties. Very high arc flash protection with ultra-light weight.

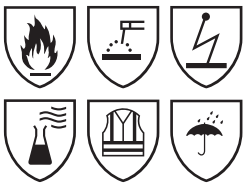
- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), EBT = 51 cal/cm², ELIm = 42 cal/cm²
- electric arc flash tested according to IEC 61482-2
- weather protection according to DIN EN 343, class 3/3, Waterproof (meter of water >10 m, 100kPA)
- high visibility according to DIN EN ISO 20471, class 3 (jacket size S class 2)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B2, C1, D2, E1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 2
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- good breathability RET < 16 m2Pa/W (doube layer)
- 2 outer pockets
- bip is removable, can be worn as trousers or dungarees
- marking with standard pictograms
- color: high visibilty yellow/navy blue and high visibilty orange/navy blue





APC 2

51 cal/cm²



yellow

Description	Item no.
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size S	4615200
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615201
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615202
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615203
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 2XL	4615204
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615205
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 4XL	4615207

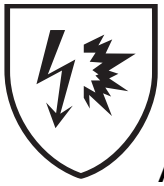
orange

Description	Item no.
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size S	4615400
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615401
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615402
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615403
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 2XL	4615404
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615405
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 4XL	4615406

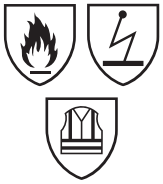
arc flash softshell jacket, APC 2

- warming and cold repellent three-ply laminate
- draughtproof, breathable and dirt repellent
- ergonomic and modern design with contrast stitching
- electric arc protection according to IEC 61482-2: APC 2 (class 2)
- warning attribute according to EN 471: class 2
- heat- and flame protection according to EN ISO 11612: A1/B1/C2/F2
- antistatic according to EN 1149-5





APC 2

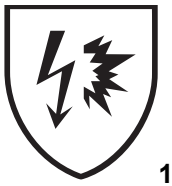


Description	Item No.
Softshell jacket, APC 2, size: XS	4613001
Softshell jacket, APC 2, size: S	4613002
Softshell jacket, APC 2, size: M	4613003
Softshell jacket, APC 2, size: L	4613004
Softshell jacket, APC 2, size: XL	4613005
Softshell jacket, APC 2, size: 2XL	4613006
Softshell jacket, APC 2, size: 3XL	4613007

arc flash jacket "Classic" HRC 2, 13 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm²
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on collar
- single layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- color: navyblue





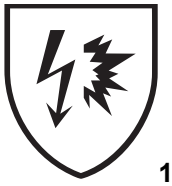
13 cal/cm²

Description	Item No.
BSD jacket HRC 2, 13 cal/cm², size: S	4655050
BSD jacket HRC 2, 13 cal/cm², size: M	4655051
BSD jacket HRC 2, 13 cal/cm², size: L	4655052
BSD jacket HRC 2, 13 cal/cm², size: XL	4655053
BSD jacket HRC 2, 13 cal/cm², size: XXL	4655054
BSD jacket HRC 2, 13 cal/cm², size: XXXL	4655055

arc flash bib overall "Classic" HRC 2, 13 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm²
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on collar
- single layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- color: navyblue





13 cal/cm²

Description	Item No.
BSD bib overall HRC 2, 13 cal/cm², size: S	4655070
BSD bib overall HRC 2, 13 cal/cm², size: M	4655071
BSD bib overall HRC 2, 13 cal/cm², size: L	4655072
BSD bib overall HRC 2, 13 cal/cm², size: XL	4655073
BSD bib overall HRC 2, 13 cal/cm², size: XXL	4655074
BSD bib overall HRC 2, 13 cal/cm², size: 3XL	4655075

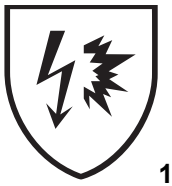
arc flash kit "Classic" HRC 2, 13 cal/cm²

Kit-HRC 2 consists of:

1 pce arc flash hood HRC 2
1 pce arc flash jacket HRC 2
1 pce arc flash dungarees HRC 2
1 pair arc flash gloves HRC 3
1 pce storage bag

- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 13 cal/cm²
- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm²
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- single layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- bag to store or transport the Kit
- color: navyblue





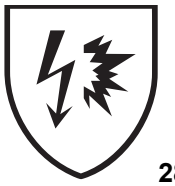
13 cal/cm²

Description	Item No.
KIT HRC 2, 13 cal/cm², size: S	4100210
KIT HRC 2, 13 cal/cm², size: M	4100211
KIT HRC 2, 13 cal/cm², size: L	4100212
KIT HRC 2, 13 cal/cm², size: XL	4100213
KIT HRC 2, 13 cal/cm², size: XXL	4100214
KIT HRC 2, 13 cal/cm², size: XXXL	4100215

arc flash jacket "Classic" HRC 3, 28 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm²
- also certificated according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the collar
- double layer fabric:
  - outer layer 350 g/m² (10 oz/yd2): cotton, carbon
  - inner layer 250 g/m² (7.4 oz/yd2): cotton, polyamid, carbon
- color: navyblue





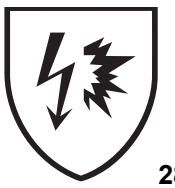
28 cal/cm²

Description	Item No.
BSD jacket HRC 3, 28 cal/cm², size: S	4655080
BSD jacket HRC 3, 28 cal/cm², size: M	4655081
BSD jacket HRC 3, 28 cal/cm², size: L	4655082
BSD jacket HRC 3, 28 cal/cm², size: XL	4655083
BSD jacket HRC 3, 28 cal/cm², size: XXL	4655084
BSD jacket HRC 3, 28 cal/cm², size: XXXL	4655085

arc flash bib overall "Classic" HRC 3, 28 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm²
- also certificated according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the collar
- double layer fabric:
  - outer layer 350 g/m² (10 oz/yd2): cotton, carbon
  - inner layer 250 g/m² (7.4 oz/yd2): cotton, polyamid, carbon
- color: navyblue





28 cal/cm²

Description	Item No.
BSD bib overall HRC 3, 28 cal/cm², size: S	4655090
BSD bib overall HRC 3, 28 cal/cm², size: M	4655091
BSD bib overall HRC 3, 28 cal/cm², size: L	4655092
BSD bib overall HRC 3, 28 cal/cm², size: XL	4655093
BSD bib overall HRC 3, 28 cal/cm², size: XXL	4655094
BSD bib overall HRC 3, 28 cal/cm², size: 3XL	4655095

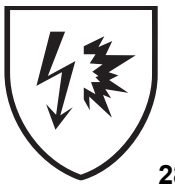
arc flash kit "Classic" HRC 3, 28 cal/cm²

Kit-HRC 3 consists of:

1 pce arc flash hood HRC 3
1 pce arc flash jacket HRC 3
1 pce arc flash dungarees HRC 3
1 pair arc flash gloves HRC 3
1 pce storage bag

- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 28 cal/cm²
- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm²
- arc flash tested according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- double layer fabric:
  - outer layer 350 g/m² (10 oz/yd2): cotton, carbon
  - inner layer 250 g/m² (7.4 oz/yd2): cotton, polyamid, carbon
- bag to store or transport the Kit
- color: navyblue





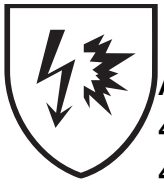
28 cal/cm²

Description	Item No.
KIT HRC 3, 28 cal/cm², size: S	4100310
KIT HRC 3, 28 cal/cm², size: M	4100311
KIT HRC 3, 28 cal/cm², size: L	4100312
KIT HRC 3, 28 cal/cm², size: XL	4100313
KIT HRC 3, 28 cal/cm², size: XXL	4100314
KIT HRC 3, 28 cal/cm², size: XXXL	4100315

arc flash jacket, APC 2, HRC 4, 47 cal/cm²

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level W_{LBP} = 410 kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on left chest
- double layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- color: navyblue







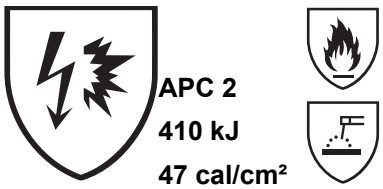
APC 2
410 kJ
47 cal/cm²

Description	Item No.
BSD jacket HRC 4, APC 2, 47 cal/cm², size: S	4655030
BSD jacket HRC 4, APC 2, 47 cal/cm², size: M	4655031
BSD jacket HRC 4, APC 2, 47 cal/cm², size: L	4655032
BSD jacket HRC 4, APC 2, 47 cal/cm², size: XL	4655033
BSD jacket HRC 4, APC 2, 47 cal/cm², size: 2XL	4655034
BSD jacket HRC 4, APC 2, 47 cal/cm², size: 3XL	4655035
BSD jacket HRC 4, APC 2, 47 cal/cm², size: 4XL	4655036

arc flash bib overall, APC 2, HRC 4, 47 cal/cm²



- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level W_{LBP} = 410 kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the left leg
- double layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- color: navyblue



Description	Item No.
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: S	4655040
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: M	4655041
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: L	4655042
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: XL	4655043
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: 2XL	4655044
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: 3XL	4655045
BSD bib overall HRC 4, APC 2, 47 cal/cm², size: 4XL	4655046

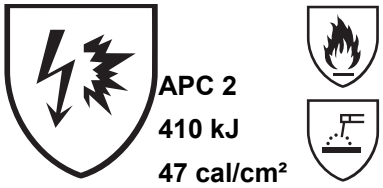
arc flash KIT, APC 2, HRC 4, 47 cal/cm²



Kit-HRC 4 consists of:

1 pce arc flash hood HRC 4
1 pce arc flash jacket HRC 4
1 pce arc flash dungarees HRC 4
1 pair arc flash gloves HRC 4
1 pce storage bag

- arc protection hood with integrated hard hat and bracket arc flash tested according to ASTM F2178, ATPV: 47 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W(LBP)= 630 kJ
- garments arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level W_{LBP} = 410 kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- arc flash testet according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- double layer fabric, 350 g/m² (10 oz/yd2) per layer: cotton, carbon
- bag to storage or transport the Kit
- color: navyblue



Description	Item No.
KIT HRC 4, APC 2, 47 cal/cm², size: S	4100510
KIT HRC 4, APC 2, 47 cal/cm², size: M	4100511
KIT HRC 4, APC 2, 47 cal/cm², size: L	4100512
KIT HRC 4, APC 2, 47 cal/cm², size: XL	4100513
KIT HRC 4, APC 2, 47 cal/cm², size: 2XL	4100514
KIT HRC 4, APC 2, 47 cal/cm², size: 3XL	4100515
KIT HRC 4, APC 2, 47 cal/cm², size: 4XL	4100516

arc flash jacket "Power", APC 2, HRC 4, 41 cal/cm²

- arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm², ELIM = 29 cal/cm²
- arc flash tested according to IEC 61482-1-2, APC 2 (Class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7.10 m² Pa/W
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- industry washing suitable according to EN ISO 15797
- embroidered signs with class specification on the left chest
- ultra light grammage: 410g/m² (12 oz/yd²)
- outer layer 240 g/m², 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m², 100% aramid (Nomex®)
- color: greyblue





APC 2
41 cal/cm²

Description	Item No.
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: S	4655010
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: M	4655011
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: L	4655012
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: XL	4655013
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: XXL	4655014
BSD jacket HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: XXXL	4655015

arc flash bib overall "Power", APC 2, HRC 4, 41 cal/cm²

- arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm², ELIM = 29 cal/cm²
- arc flash tested according to IEC 61482-1-2, APC 2 (Class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7.10 m² Pa/W
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- 2 side pockets
- stretch strap with fast-lock clasp, side-access with 2 stretch insert
- industry washing suitable according to EN ISO 15797
- embroidered signs with class specification on the leg
- ultra light grammage: 410g/m² (12 oz/yd²)
- outer layer 240 g/m², 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m², 100% aramid (Nomex®)
- color: greyblue





APC 2
41 cal/cm²

Description	Item No.
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: S	4655020
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: M	4655021
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: L	4655022
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: XL	4655023
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: XXL	4655024
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm², 12.0 oz/yd2, size: 3XL	4655025

arc flash KIT "Power" APC 2, HRC 4 , 40 cal/cm²



Kit-Power consists of:

1 pce arc flash hood HRC 4 Power
1 pce arc flash jacket HRC 4 Power
1 pce arc flash dungarees HRC 4 Power
1 pair arc flash gloves HRC 4 Power
1 pce storage bag

- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 40 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- jacket and dungarees arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm²,ELIM = 29 cal/cm²
- jacket and dungarees arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7,10 m² Pa/W
- for the highest arc flash protection
- clothing industry washing suitable according to EN ISO 15797
- ultra light grammage: 410g/m² (12 oz.yd2)
- outer layer 240 g/m², 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m², 100% aramid (Nomex®)
- bag to transport and storage the KIT
- color: greyblue



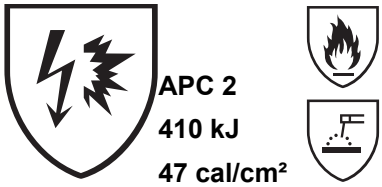
APC 2
40 cal/cm²

Description	Item No.
KIT HRC 4 Power, 40 cal/cm², APC 2,12.0 oz/yd2, size: S	4100410
KIT HRC 4 Power, 40 cal/cm², APC 2, 12.0 oz/yd2, size: M	4100411
KIT HRC 4 Power, 40 cal/cm², APC 2, 12.0 oz/yd2, size: L	4100412
KIT HRC 4 Power, 40 cal/cm², APC 2, 12.0 oz/yd2, size: XL	4100413
KIT HRC 4 Power, 40 cal/cm², APC 2, 12.0 oz/yd2, size: XXL	4100414
KIT HRC 4 Power, 40 cal/cm², APC 2, 12.0 oz/yd2, size: XXXL	4100415

arc flash coat, APC 2, HRC 4, 47 cal/cm²

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level W_{LBP} = 410 kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- front part and sleeves double layered
- length: 110 cm
- walking slit on the back
- identification pictograms at the collar
- fabric ca. 350 g/m² per layer: cotton, antistatic component
- color: navy / royal blue



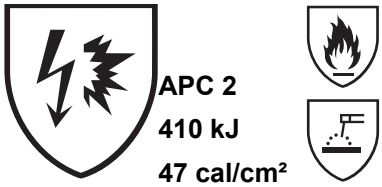


Description	Item No.
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: S	4655060
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: M	4655062
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: L	4655064
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: XL	4655066
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: XXL	4655068
arc flash coat, APC 2, HRC 4, 47.0 cal/cm², size.: 3XL	4655069
arc flash coat, APC 2, HRC 4, 47.0 cal/cm², size.: 4XL	4655078

arc flash coat, APC 2, HRC 4, 47 cal/cm², grey

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level W_{LBP} = 410 kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- front part and sleeves double layered
- length: 110 cm
- walking slit on the back
- identification pictograms at the collar
- fabric ca. 350 g/m² per layer: cotton, antistatic component
- color: grey



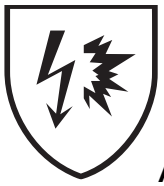


Description	Item No.
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: S	4655060grau
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: M	4655062grau
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: L	4655064grau
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: XL	4655066grau
arc flash coat, APC 2, HRC 4, 47 cal/cm², size.: XXL	4655068grau
arc flash coat, APC 2, HRC 4, 47.0 cal/cm², size.: 3XL	4655069grau
arc flash coat, APC 2, HRC 4, 47.0 cal/cm², size.: 4XL	4655078grau

Belt

- arc flash tested
- flame-resistant
- antistatic
- permanently elastic
- color: black with embroidered BSD-logo





APC 2

Description	Item No.
Belt, PPE against eletric arc, length: 90 cm	4601320
Belt, PPE against eletric arc, length: 100 cm	4601321
Belt, PPE against eletric arc, length: 110 cm	4601322
Belt, PPE against eletric arc, length: 120 cm	4601323
Belt, PPE against eletric arc, length: 130 cm	4601324
Belt, PPE against eletric arc, length: 140 cm	4601325
Belt, PPE against eletric arc, length: 150 cm	4601326

Knee pad

- for usage in trousers and dungarees
- out of 100 % polyethylene
- according to DIN EN 14404 (type 2, power stage 1)



Description	Item No.
knee pads, grey	4653111

Storage and transport bag for KIT and PPE

- bag to store and transport PPE
- enough space for face protection, helmet, arc flash clothing and protective gloves
- solid construction
- size: 58 cm x 30 cm x 35 cm



Description	Item No.
storage and transport bag for KIT and PPE	4701001

BSD

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